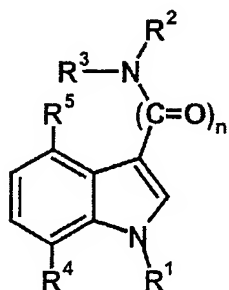


## IN THE CLAIMS

1-19 (canceled)

20 (original) A hydroxyindole of formula 1,



wherein

n is 1 or 2, and

R<sup>1</sup>

(i) is -C<sub>1-10</sub>-alkyl, which is straight-chain or branched and optionally substituted, once or more than once, by -OH, -SH, -NH<sub>2</sub>, -NHC<sub>1-6</sub>-alkyl, -N(C<sub>1-6</sub>-alkyl)<sub>2</sub>, -NHC<sub>6-14</sub>aryl, -N(C<sub>6-14</sub>aryl)<sub>2</sub>, -N(C<sub>16</sub>alkyl)(C<sub>6-14</sub>aryl), -NO<sub>2</sub>, -CN, -F, -Cl, -Br, -I, -O-C<sub>1-6</sub>-alkyl, -O-C<sub>6-14</sub>-aryl, -S-C<sub>1-6</sub>-alkyl, -S-C<sub>6-14</sub>aryl, -SO<sub>3</sub>H, -SO<sub>2</sub>C<sub>1-6</sub>alkyl, -SO<sub>2</sub>C<sub>6-14</sub>aryl, -OSO<sub>2</sub>C<sub>1-6</sub>alkyl, -OSO<sub>2</sub>C<sub>6-14</sub>aryl, -COOH, -(CO)C<sub>1-5</sub>alkyl or -O(CO)C<sub>1-5</sub>alkyl, by mono-, bi- or tricyclic saturated or monounsaturated or polyunsaturated carbocycles having 3-14 ring members, or by mono-, bi- or tricyclic saturated or monounsaturated or polyunsaturated heterocycles having 5-15 ring members and 1-6 heteroatoms which are preferably N, O and S, where the

C<sub>6-14</sub>aryl groups and the carbocyclic and heterocyclic substituents can, for their part, be optionally substituted, once or more than once, by -C<sub>1-6</sub>-alkyl, -OH, -NH<sub>2</sub>, -NHC<sub>1-6</sub>-alkyl, -N(C<sub>1-6</sub>-alkyl)<sub>2</sub>, -NO<sub>2</sub>, -CN, -F, -Cl, -Br, -I, -O-C<sub>1-6</sub>-alkyl, -S-C<sub>1-6</sub>-alkyl, -SO<sub>3</sub>H, -SO<sub>2</sub>C<sub>1-6</sub>alkyl, -OSO<sub>2</sub>C<sub>1-6</sub>alkyl, -COOH, -(CO)C<sub>1-5</sub>alkyl or -O(CO)C<sub>1-5</sub>alkyl, and where the alkyl groups on the carbocyclic and heterocyclic substituents can, for their part, be optionally substituted, once or more than once, by -OH, -SH, -NH<sub>2</sub>, -F, -Cl, -Br, -I, -SO<sub>3</sub>H or -COOH, or

(ii) is -C<sub>2-10</sub>-alkenyl, which is monounsaturated or polyunsaturated, straight-chain or branched and optionally substituted, once or more than once, by -OH, -SH, -NH<sub>2</sub>, -NHC<sub>1-6</sub>-alkyl, -N(C<sub>1-6</sub>-alkyl)<sub>2</sub>, -NHC<sub>6-14</sub>aryl, -N(C<sub>6-14</sub>aryl)<sub>2</sub>, -N(C<sub>1-6</sub>alkyl)(C<sub>6-14</sub>aryl), -NO<sub>2</sub>, -CN, -F, -Cl, -Br, -I, -O-C<sub>1-6</sub>-alkyl, -O-C<sub>6-14</sub>-aryl, -S-C<sub>1-6</sub>-alkyl, -S-C<sub>6-14</sub>aryl, -SO<sub>3</sub>H, -SO<sub>2</sub>C<sub>1-6</sub>alkyl, -SO<sub>2</sub>C<sub>6-14</sub>aryl, -OSO<sub>2</sub>C<sub>1-6</sub>alkyl, -OSO<sub>2</sub>C<sub>6-14</sub>-aryl, -COOH, -(CO)C<sub>1-5</sub>-alkyl or -O(CO)C<sub>1-5</sub>alkyl, by mono-, bi- or tricyclic saturated or monounsaturated or polyunsaturated carbocycles having 3-14 ring members, or by mono-, bi- or tricyclic saturated or monounsaturated or polyunsaturated heterocycles having 5-15 ring members and 1-6 heteroatoms which are preferably N, O and S, where the C<sub>6-14</sub>aryl groups and the carbocyclic and heterocyclic substituents can, for their part, be optionally substituted, once or more than once, by -C<sub>1-6</sub>-alkyl, -OH, -NH<sub>2</sub>, -NHC<sub>1-6</sub>-alkyl, -N(C<sub>1-6</sub>-alkyl)<sub>2</sub>, -NO<sub>2</sub>, -CN, -F, -Cl, -Br, -I, -O-C<sub>1-6</sub>-alkyl, -S-C<sub>1-6</sub>-alkyl, -SO<sub>3</sub>H, -SO<sub>2</sub>C<sub>1-6</sub>alkyl, -OSO<sub>2</sub>C<sub>1-6</sub>alkyl, -COOH, -(CO)C<sub>1-5</sub>alkyl or -O(CO)C<sub>1-5</sub>alkyl, and where the alkyl groups on the carbocyclic and heterocyclic substituents can, for their part, be optionally substituted, once or more than once, by -OH, -SH, -NH<sub>2</sub>, -F, -Cl, -Br, -I, -SO<sub>3</sub>H or -COOH,

R<sup>2</sup> and R<sup>3</sup>

(i) are, in each case independently of each other, hydrogen or -C<sub>1-5</sub>-alkyl,

which is optionally substituted, once or more than once, by -OH, -SH, -NH<sub>2</sub>, -NHC<sub>1-6</sub>-alkyl, -N(C<sub>1-6</sub>-alkyl)<sub>2</sub>, -NO<sub>2</sub>, -CN, -F, -Cl, -Br, -I, -O-C<sub>1-6</sub>-alkyl, -S-C<sub>1-6</sub>-alkyl, -phenyl or -pyridyl,

-phenyl,

which is optionally substituted, once or more than once, by -C<sub>1-3</sub>-alkyl, -OH, -SH, -NH<sub>2</sub>, -NHC<sub>1-3</sub>-alkyl, -N(C<sub>1-3</sub>-alkyl)<sub>2</sub>, -NO<sub>2</sub>, -CN, -COOH, -COOC<sub>1-3</sub>-alkyl, -F, -Cl, -Br, -I, -O-C<sub>1-3</sub>-alkyl, -S-C<sub>1-3</sub>-alkyl or -O(CO)-C<sub>1-3</sub>-alkyl,

-pyridyl,

which is optionally substituted, once or more than once, by -C<sub>1-3</sub>-alkyl, -OH, -SH, -NO<sub>2</sub>, -CN, -COOH, -COOC<sub>1-3</sub>-alkyl, -F, -Cl, -Br, -I, -O-C<sub>1-3</sub>-alkyl, -S-C<sub>1-3</sub>-alkyl or -O(CO)-C<sub>1-3</sub>-alkyl,

where only one of R<sup>2</sup> and R<sup>3</sup> is hydrogen and where the alkyl groups on the carbocyclic and heterocyclic substituents can, for their part, be optionally substituted, once or more than once, by -OH, -SH, -NH<sub>2</sub>, -F, -Cl, -Br, -I, -SO<sub>3</sub>H, -COOH, -O(CO)-C<sub>1-5</sub>-alkyl, or -O(CO)C<sub>1-5</sub>-alkyl, or

- (ii) NR<sup>2</sup>R<sup>3</sup> together form a saturated or unsaturated five-membered or six-membered ring which can contain up to 3 heteroatoms, preferably N, S and O, and which is optionally substituted, once or more than once, by -C<sub>1-3</sub>-alkyl, -OH, -SH, -NO<sub>2</sub>, -CN, -COOH, -COOC<sub>1-3</sub>-alkyl, -F, -Cl, -Br, -I, -O-C<sub>1-3</sub>-alkyl, -S-C<sub>1-3</sub>-alkyl or -O(CO)-C<sub>1-3</sub>-alkyl,

R<sup>4</sup> and R<sup>5</sup> are -H or -OH, where at least one of the two must be -OH, or salts of the compounds according to formula 1.

21. (original) A compound according to claim 20, wherein said compound has an asymmetric carbon atom in the D form or L form, or D,L mixtures or, when more than one asymmetrical carbon atom is present, the diastereomeric forms.
22. (original) A compound according to claim 20, wherein n is 2.
23. (original) A compound according to claim 20, wherein  $R^4 = -OH$  and  $R^5 = -H$ .
24. (original) A compound according to claim 20, wherein  $-NR^2R^3$  is a phenylamino or pyridylamino which is substituted by one or more halogen atoms.
25. (original) A compound according to claim 20, wherein  $R^1$  is a substituted benzyl radical.
26. (original) A compound according to claim 25, wherein the benzyl radical contains at least one substituent in the ortho position on the phenyl ring.
27. (original) A compound according to Claim 20 selected from the group consisting  
N-(3,5-dichloropyridin-4-yl)-[1-(4-fluorobenzyl)-4-hydroxyindol-3-yl]carboxamide,  
N-(3,5-dichloropyridin-4-yl)-[1-(4-chlorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,  
N-(3,5-dichloropyridin-4-yl)-[1-(4-chlorobenzyl)-7-hydroxyindol-3-yl]carboxamide,  
N-(3,5-dichloropyridin-4-yl)-[1-(4-fluorobenzyl)-4-hydroxyindol-3-yl]glyoxyamide,  
N-(3,5-dichloropyridin-4-yl)-[1-(4-fluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,  
N-(3,5-dichloropyridin-4-yl)-[1-(2-fluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,  
N-(3,5-dichloropyridin-4-yl)-[1-(3-nitrobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-[1-(2,6-difluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-[1-(2,4-difluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-[1-(2-chlorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-[1-(2,6-dichlorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-[1-(2-methylbenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-[1-(2,6-dimethylbenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-(1-hexyl-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-(1-isobutyl-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-(1-cyclopropylmethyl-7-hydroxyindol-3-yl]glyoxylamide,

N-(2,6-dichlorophenyl)-[1-(4-fluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(2,6-dichlorophenyl)-[1-(2-fluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(4-pyridyl)-[1-(2-fluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-[1-(4-pyridylmethyl)-7-hydroxyindol-3-yl]glyoxylamide,

1-(4-fluorobenzyl)-7-hydroxyindol-3-yl]glyoxylic acid piperidide,

N-(3,5-dichloropyridin-4-yl)-[1-(4-hydroxybenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-[1-(2-chloro-6-fluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(3,5-dichloropyridin-4-yl)-[1-(2-trifluoromethylbenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

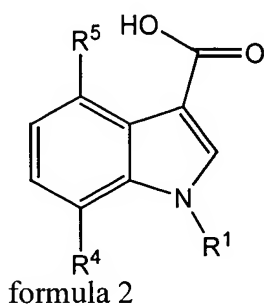
N-methyl-N-(pyridin-4-yl)-[1-(2-fluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

N-(2,6-dimethylpyridin-4-yl)-[1-(2-fluorobenzyl)-7-hydroxyindol-3-yl]glyoxylamide,  
and

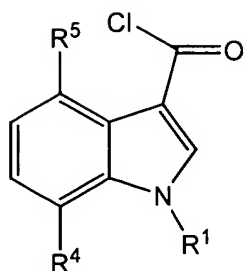
N-(3,5-dichloropyridin-4-yl)-[1-(2-carboxybenzyl)-7-hydroxyindol-3-yl]glyoxylamide,

and physiologically tolerated salts thereof.

28. (original) A process for preparing a compound according to claim 20 comprising reacting an indole-3-carboxylic acid of formula 2:



with an acid chloride to form the analogous indole-3-carbonyl chloride of the formula 3

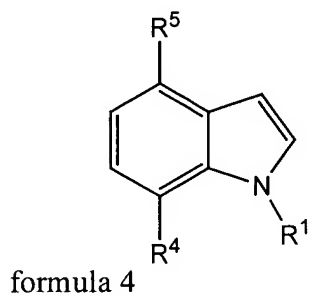


formula 3

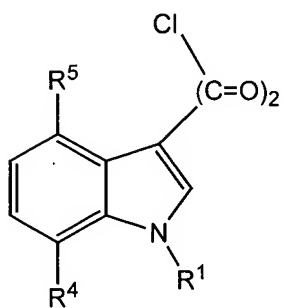
reacting the compound of formula 3 with a primary and a secondary amine to form the corresponding amide and eliminating a protecting group to form a compound of formula 1, wherein  $n = 1$ .

29. (original) A process according to claim 28, wherein said acid chloride is thionyl chloride or oxalyl chloride to synthesize the indole-3-carbonyl chlorides according to formula 3.
30. (original) A process according to claim 28, wherein said indole-3-carbonyl chloride according to formula 3 are reacted with primary or secondary amines in the presence of an auxiliary base.
31. (original) A process according to claim 28, wherein said indole-3-carbonyla chloride is reacted with a primar or secondary amine in the presence of an excess of amine.
32. (original) A process according to claim 31, wherein the excess amine is a tertiary amine.

33. (original) A process according to claim 30, wherein indole-3-carbonyl chloride is reacted in the presence of an inorganic base.
34. (original) A process for preparing a compound according to Claim 1, comprising reacting an indole formula 4



with oxalyl chloride to form the analogous indol-3-ylglyoxylyl chloride of formula 5





reacting the compound of formula 5 with a primary or secondary amine to form the corresponding amide and eliminating a protecting group to form a compound according to formula 1, wherein n is 2.

35. (original) A process according to claim 34, wherein indol-3-ylglyoxylyl chlorides according to formula 5 are reacted with primary or secondary amines in the presence of an auxiliary base.
36. (original) A method for inhibiting PDE 4 comprising administering a sufficient amount of a compound of claim 20 to a subject to inhibit PDE 4.
37. (original) A method for treating a disease associated with the activity of eosinophils, comprising administering a therapeutically effective amount of a compound according to claim 20 to a subject in need thereof.
38. (original) A method for treating a disease associated with the activity of neutrophils comprising administering a therapeutically effective amount of a compound according to claim 20 to a subject in need thereof.
39. (original) A pharmaceutical dosage form comprising at least one compound according to claim 20 and at least one of a customary, physiologically tolerated excipient, diluent or auxiliary substance.
40. (original) A process for producing a pharmaceutical dosage form comprising admixing at least one compound according to claim 20 with a customary pharmaceutical carrier substance, a diluent or an auxiliary substance to form a therapeutically desirable pharmaceutical preparation.

41. (original) A method of treating modifying the activity of PDE 4 in a subject in need thereof comprising administering the dosage form of claim 39 to a subject in need thereof, optionally with a different therapeutically active agent.